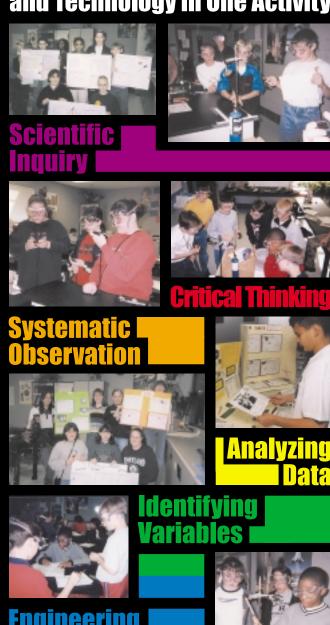
# Connecting Math, Science, and Technology in One Activity



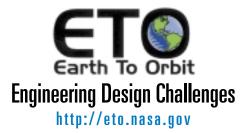


National Aeronautics and Space Administration

#### Office of Aerospace Technology

George C. Marshall Space Flight Center Marshall Space Flight Center, Alabama 35812

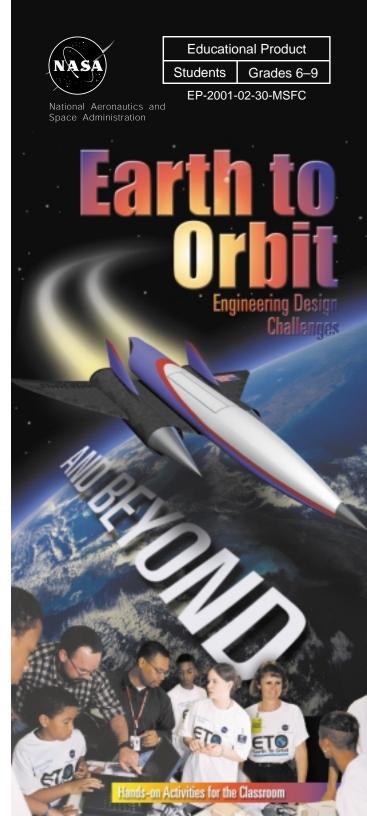
**Dryden Flight Research Center** Edwards Air Force Base, California 93523





**NASA Student Involvement Program** 

http://nsip.net



#### **Purpose**

The NASA Earth to Orbit Engineering Design Challenges connect students with the challenges of NASA engineers as they design the next generation of aerospace vehicles. With simple and inexpensive materials, students engage in related design challenges in their classrooms by designing, building, and testing models that meet specified criteria.

### **Develops**

- Use of scientific method
- Discovery method learning
- Team work
- Creativity and problem solving skills
- Presentation and communication skills
- Integration of science, math, and technology.

## Materials Available on the World Wide Web

- Design challenges include the complete background information, activity, design sheet, assessment, and transparency masters
- Video
- Related links for investigation
- Alternate lesson plans
- PowerPoint presentation
- Games and puzzles
- Teacher feedback
- Vendors for prepacked kits containing the materials
- Competition for NASA Student Involvement Program.

